

## Pros and Cons of Different Imagery Options for Property Valuation:

Option	Pros	Cons
<b>Option A - Oblique Imagery</b>  <b>Resolution--Cost:</b> 3" urban--\$472/sqmi  9" rural--\$85.50/sqmi          <b>Total--\$5,068,665</b>	Oblique imagery allows for high quality/high efficiency imagery analysis  Accurate vertical and horizontal measurements  Allow for determination of structure type (house vs outbuilding vs garage vs commercial)  Proven implementations in appraisal jurisdiction nationwide  Existing integration with ORION CAMA system  Tightly controlled imagery acquisition schedule  High resolution available  Automated change detection available  Tight integration with ESRI software  Online imagery and imagery analysis tools available	Cost  Data administration  Unknown efficiency gains  No ortho (top down) technology available
<b>Option B - Oblique Imagery</b>  <b>Resolution--Cost</b> 6" urban--\$200/sqmi 12" rural--\$95/sqmi  <b>Total--\$5,289,885</b>	Same as above except as noted in Cons  Ortho (top down) technology available	Same as above except as noted in Pros  No tight integration with ESRI software  No off-the-shelf integration with ORION
<b>Option C - Ortho Imagery</b>  6" urban--\$140/sqmi 12" rural--\$50/sqmi  <b>Total--\$2,852,640</b>	Less expensive then oblique  Proven implementations in appraisal jurisdiction nationwide	No vertical measurements possible  Difficult to determine structure type (residential, outbuilding, commercial)  No off-the-shelf integration with ORION
<b>Option D - Satellite Imagery</b>  <b>Resolution:</b> 18" to ##" (all satellite)          <b>Total--\$in progress</b>	Cheaper then oblique and ortho imagery  Statewide imagery available  Online imagery and imagery analysis tools available  Controlled aquisition schedule would allow comparision to find change in future collections	Low resolution (i.e. difficult to interpret imagery)  Less control over imagery acquisition  Cloud cover 20% or less  Difficult to determine structure type (residential, outbuilding, commercial)  Limited widespread us in residential appraisal functions in jurisdiction in US (still researching)  No automated change detection software/process so requires manual change detection discovery  No vertical measurements possible. Horizontal measurements marginal due to low resolution  No off-the-shelf integration with ORION
<b>Option E - Satellite Imagery</b>  <b>Resolution:</b> 12" to 18" (mixture of aerial and satellite)          <b>Total--\$70,000</b>	Cheaper then oblique and ortho imagery  Statewide imagery mostly available  Online imagery and imagery analysis tools available	Low resolution (i.e. difficult to interpret imagery)  Little control over imagery collection schedule making change discovery difficult  Cloud cover 20% or less  Difficult to determine structure type (residential, outbuilding, commercial)  Limited widespread us in residential appraisal functions in jurisdiction in US (still researching)  No automated change detection software/process so requires manual change detection discovery  No vertical measurements possible. Horizontal measurements marginal due to low resolution  No off-the-shelf integration with ORION
<b>Option F - NAIP Imagery</b>  <b>Resolution:</b> 1 meter          <b>Total--\$ free</b>	Free  Washington DC plans to collect NAIP nationwide every 2 years  Used by PAD for years in ag/forest valuation, some residential appraisal  Statewide coverage	Low resolution (i.e. difficult to interpret imagery)  Difficult to determine structure type (residential, outbuilding, commercial)  No automated change detection software/process so requires manual change detection discovery  No vertical measurements possible. Horizontal measurements marginal due to low resolution  No known use in residential appraisal functions in any jurisdiction in US (still researching)

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